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CLAIMS

What is claimed is:

- A process for creating an electrically isolated electrode
 on a sidewall of a cavity in a base, the process
 comprising the steps of:
- etching one or more trenches in a backside of the base;

 forming a layer of insulating material on one or more

 sidewalls of one or more of the trenches;
- forming a conductive layer on the layer of insulating material on one or more sidewalls of one or more of the trenches; and;
- removing base material from a portion of the base bordered by the one or more trenches.
- 2. The process of claim 1, wherein the trenches are defined underneath a flap.
- 3. The process of claim 1, wherein the trench etch stops on an etch-stop layer.
- 1 4. The process of claim 1, wherein the conductive layer completely fills the trench.
- The process of claim 1, wherein a layer of conducting material is also deposited on the backside of the base.
- The process of claim 1, wherein the trench is formed using an anisotropic etch.
- 7. The process of claim 1, wherein the base is a crystalline
 material.

ONX-115B

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- 1 8. The process of claim 1 wherein the trench is etched such that an orientation of the sidewall is defined by a crystal orientation of the base material.
- 9. The process of claim 8, wherein the base is composed of
 crystalline silicon having a <110> crystal orientation.